

ABSTRACT

Disclosed herein is a device for measuring a pedal-pushing force applied to a pedal of a vehicle. The device comprises a robot having a robotic arm that moves according to a moving track of the pedal while the posture of the robotic arm is controlled, and a load cell attached to the end of the robotic arm for detecting a pedal-pushing force applied to the pedal. To the end of the load cell is fixed a roller for minimizing frictional force generated at the measured surface of the pedal. The device further comprises a connection bracket fixed to the pedal, a rod having one end fixed to the load cell and the other end inserted into the connection bracket, and a pin for connecting the connection bracket and the rod such that the rod is rotated relative to the connection bracket, whereby a reverse load generated at the pedal is measured. According to the present invention, the pedal-pushing force applied to the pedal is accurately measured, as well as a reverse load generated at the pedal.